

Patent Abstracts of Japan

PUBLICATION NUMBER : 03226444
PUBLICATION DATE : 07-10-91

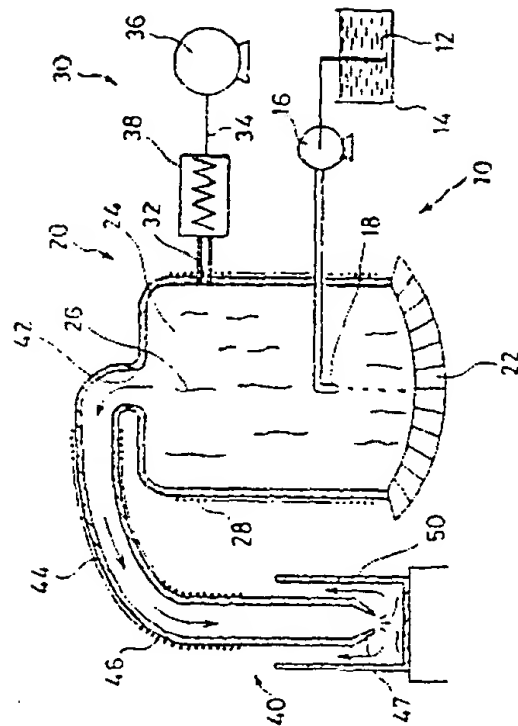
APPLICATION DATE : 24-01-90
APPLICATION NUMBER : 02014507

APPLICANT : DAINIPPON PRINTING CO LTD;

INVENTOR : KOYAMA AKIRA;

INT.CL. : B65B 55/10 A61L 2/20

TITLE : STERILIZING GAS PRODUCTION
METHOD FOR STERILIZING
PACKAGING MATERIAL AND
STERILIZING GAS PRODUCTION
EQUIPMENT USING SAID METHOD



ABSTRACT : PURPOSE: To produce high temperature, high concentrated sterilizing chemical gas by a method wherein a liquid sterilizing chemical is fed into an evaporator and heated by a heater up to the boiling point or higher to completely evaporate the chemical, and then hot air is fed into the evaporator and mixed with the chemical gas.

CONSTITUTION: After an evaporation chamber 24 of an evaporator 20 is heated by a evaporation heater 22 and a hot-keeping heater 28, hydrogen peroxide is supplied in drop or mist state into the evaporation chamber 24 by a sterilizing chemical feeder 10 and brought in contact with the evaporation heater 22 or exposed to the high temperature air in the evaporation chamber, so that the chemical is completely evaporated. After that, hot air supplied from a hot-air feeder 30 is mixed with the chemical to produce hydrogen peroxide gas 26 which is blown to the surface 50 of packaging material through a blow nozzle 47. The concentration of hydrogen peroxide of the sterilizing chemical gas produced here is adjustable by controlling the feed amounts of hydrogen peroxide and hot air.

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